

**DEPARTMENT OF TRANSPORTATION**

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch

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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 1.28**WELDING INSPECTION REPORT****Resident Engineer:** Casey, William**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** WIR-027936**Date Inspected:** 06-Jul-2012**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** American Bridge/Fluor Enterprises, a JV**Location:** Jobsite**CWI Name:** NA**CWI Present:** Yes No**Inspected CWI report:** Yes No N/A**Rod Oven in Use:** Yes No N/A**Electrode to specification:** Yes No N/A**Weld Procedures Followed:** Yes No N/A**Qualified Welders:** Yes No N/A**Verified Joint Fit-up:** Yes No N/A**Approved Drawings:** Yes No N/A**Approved WPS:** Yes No N/A**Delayed / Cancelled:** Yes No N/A**Bridge No:** 34-0006**Component:** TOWER: Location "M"**Summary of Items Observed:**

On this date, Quality Assurance Inspector (QAI) Robert A. DeArmond was present at the San Francisco Oakland bay Bridge job site at Yerba Buena Island to observe and perform Non-Destructive testing for the San Francisco Oakland Bay Bridge (SFOBB) project. This Quality Assurance Inspector (QAI) observed the following work performed by American Bridge/Fluor Enterprises (AB/F) personnel at the locations noted below:

**Ultrasonic Testing**

Tower ESW-W-042 Location M Face "A" (Y=3000~6000)

This QAI performed Ultrasonic Testing (UT), in tandem with ABF QC inspector Mr. Jesse Cayabyab, on Tower Complete Joint Penetration groove welds (CJP), designated as a 150-degree Tee-Joint shear plate connection 60 ESW-W-042 Face A. During the QA/QC tandem Ultrasonic Testing, scanning was performed for longitudinal planar indications and transverse indications; in accordance with supplemental procedure SE-UT-D1.

5-CT-108-ESW-R6. The UT inspection was performed using a 70 degree shear wave from face A; seven transverse indications were discovered and four longitudinal at the following locations, with a length of 10 mm +/-.

The remaining length of weld tested with indications did not have a rating that qualifies as rejectable or recordable according to AWS D1.5 2002 and supplemental procedure SE-UT-D1.5-CT-108-ESW-R6.

**Transverse**

Y+ 3070, Y+3130, Y+3420, Y+3550, Y+3920, Y+4000, Y+4220

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Longitudinal

Y+4400, Y+4540, Y+5720, Y+5800

### Summary of Conversations:

As mentioned above between QA and QC concerning this project

### Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Nina Choy 510 385 5910, who represents the Office of Structural Materials for your project.

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<b>Inspected By:</b>	DeArmond,Robert	Quality Assurance Inspector
<b>Reviewed By:</b>	Levell,Bill	QA Reviewer

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